

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings of claims.

41. (Currently Amended) An apparatus for drying hands, comprising:

a blower for generating an air jet,

~~where the blower is a two-stage blower, and~~

where the blower is driven by an electric motor, and

a heater for increasing temperature of said air jet, and

an air outlet having a longitudinal axis, the air outlet outputting said air jet, and,

where said outlet is tubular with an open end for said air jet to exit along the longitudinal axis, and

where said air outlet is circular, and

where said air outlet has a diameter between 0.5 inches to 1.25 inches, and

where said air outlet has a length 3 to 5 times as large as said air outlet diameter, and

where said air jet flow is no less than 18,000 linear feet per minute, and

where said air jet at said air outlet has a pressure force of about 50 inches of water pressure height at said outlet, and has 20 inches of water pressure height at a distance of 6 inches from said air outlet, and

where said air jet is heated, and is at a temperature of approximately 135 deg. F at 4 inches from said air outlet, and

a sound absorbing portion including an array of sound absorbing projections, said projections having a height of about 0.25 inches and spaced apart by 1/3 of the height, and

whereby said air jet blows off at least 75% of the water from said hands in less than 3 seconds, and

whereby said air jet breaks up a stagnation boundary layer on said hands and aids in evaporation of remaining water, and

whereby said hands are dried in less than 15 seconds, and

whereby when dried, said hands have less than 0.3 grams of water remaining on said hands, and

whereby immediately after drying, said hands do not cool due to evaporation of remaining water.

42. (Currently Amended) An apparatus for drying hands, comprising:

a blower for generating an air jet,

~~where the blower is a two stage blower, and~~

where the blower is driven by an electric motor, and

a heater for increasing temperature of said air jet, and

an air outlet having a longitudinal axis, the air outlet outputting said air jet, and,

where said outlet is tubular with an open end for said air jet to exit along the longitudinal axis, and

where said air outlet is circular, and

where said air outlet has a diameter between 0.5 inches to 1.25 inches, and

where said air outlet has a length 3 to 5 times as large as said air outlet diameter, and

where said air jet flow is no less than 18,000 linear feet per minute, and

where said air jet at said air outlet has a pressure force of about 50 inches of water pressure height at said outlet, and has 20 inches of water pressure height at a distance of 6 inches from said air outlet, and

where said air jet is heated, and is at a temperature of approximately 135 deg. F at 4 inches from said air outlet, and

where said dryer is mounted on the wall, and said air jet is angled towards the wall so that said water blown off is blown away from the user, and

whereby said air jet blows off at least 75% of the water from said hands in less than 3 seconds, and

whereby said air jet breaks up a stagnation boundary layer on said hands and aids in evaporation of remaining water, and

whereby said hands are dried in less than 15 seconds, and

whereby when dried, said hands have less than 0.3 grams of water remaining on said hands, and

whereby immediately after drying, said hands do not cool due to evaporation of remaining water.

43. (Currently Amended) An apparatus for drying hands, comprising:

a blower for generating an air jet,

~~where the blower is a two stage blower, and~~

where the blower is driven by an electric motor, and

where said motor is a brush type motor with a thermistor resistor in series with the brushes to limit the starting current in order to extend said brush life, and

a heater for increasing temperature of said air jet, and

an air outlet having a longitudinal axis, the air outlet outputting said air jet, and,

where said outlet is tubular with an open end for said air jet to exit along the longitudinal axis, and

where said air outlet is circular, and

where said air outlet has a diameter between 0.5 inches to 1.25 inches, and

where said air outlet has a length 3 to 5 times as large as said air outlet diameter, and

where said air jet flow is no less than 18,000 linear feet per minute, and

where said air jet at said air outlet has a pressure force of about 50 inches of water pressure height at said outlet, and has 20 inches of water pressure height at a distance of 6 inches from said air outlet, and

where said air jet is heated, and is at a temperature of approximately 135 deg. F at 4 inches from said air outlet, and

where said dryer is mounted on the wall, and said air jet is angled towards the wall so that said water blown off is blown away from the user, and

a sound absorbing portion including an array of sound absorbing projections, said projections having a height of about 0.25 inches and spaced apart by 1/3 of the height,

whereby said air jet blows off at least 75% of the water from said hands in less than 3 seconds, and

whereby said air jet breaks up a stagnation boundary layer on said hands and aids in evaporation the remaining water, and

whereby said hands are dried in less than 15 seconds, and

whereby when dried, said hands have less than 0.3 grams of water remaining on said hands, and

whereby immediately after drying, said hands do not cool due to evaporation of remaining water.

44. - 48. (Cancelled)

49. (Currently Amended) ~~The apparatus for drying hands of claim 44~~ An apparatus for drying hands, comprising:

a blower for generating an air jet

where the blower is driven by an electric motor, and
a heater for increasing temperature of said air jet, and
an air outlet for outputting said air jet, where said air jet flow is no less than 18,000 linear
feet per minute, wherein:

where said dryer is mounted on the wall, and said air jet is angled towards
the wall so that said water blown off is blown away from the user.

50. -54. (Cancelled)

55. (New) The apparatus of claim 41 where the blower is a two stage blower.

56. (New) The apparatus of claim 42 where the blower is a two stage blower.

57. (New) The apparatus of claim 43 where the blower is a two stage blower.